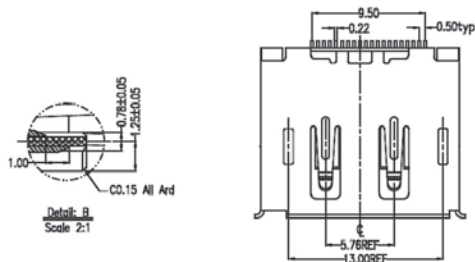
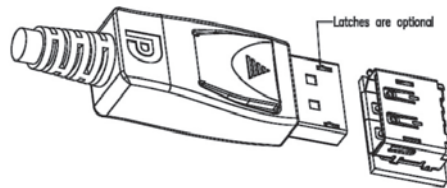
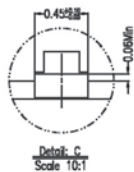


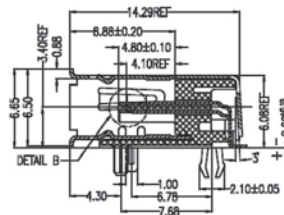
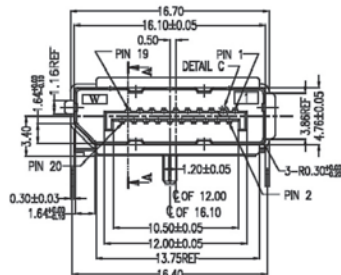
# DISPLAYPORT 20 PIN EXTERNAL FEMALE CONNECTOR SMT TYPE



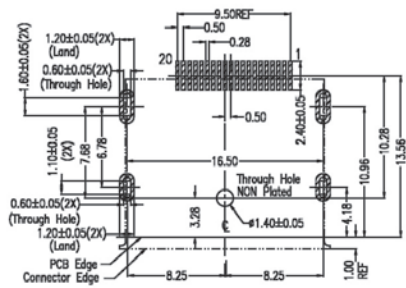
Detail B  
Scale 2:1



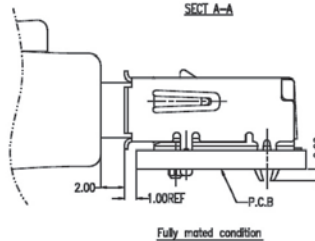
Detail C  
Scale 10:1



SECTION A-A



Recommended P.C. Board Layout



Fully mated condition

## SPECIFICATIONS

Operating Voltage: 40 VAC Max.  
Current Rating: 0.5 Ampere Per Contact  
Contact Resistance: 30mΩ Max.  
Insulation Resistance: 100MΩ Min.  
Dielectric Voltage: 500V AC Min.  
Operating Temperature: -20°C to +85°C

## MATERIALS

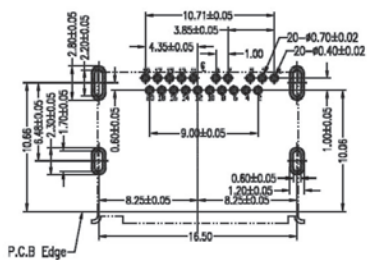
Body: LCP UL94V-0, Black  
Shield: Brass  
Contact: Brass  
Plating: Gold Plating Over Nickel(40~80u") On Contact Area, Tin(100~250u") Plating On Solder Tail  
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

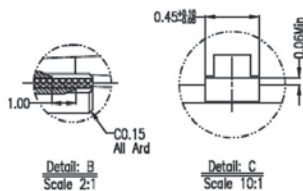
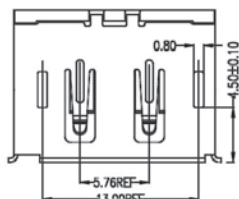
P/N D P P 0 3 -  $\frac{2}{1}$   $\frac{F}{2}$   $\frac{B}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
20
2. CONNECTOR TYPE:  
"F" FEMALE
3. INSULATOR COLOR:  
"B" BLACK
4. CONTACT FINISH:  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD
5. PACKAGE OPTION:  
"0" TRAY  
"R" TAPE & REEL

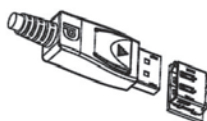
# DISPLAYPORT 20 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE



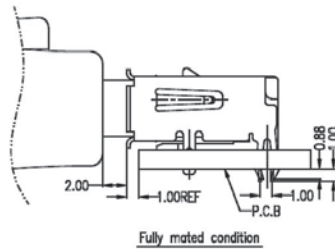
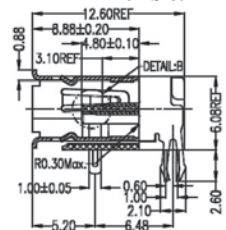
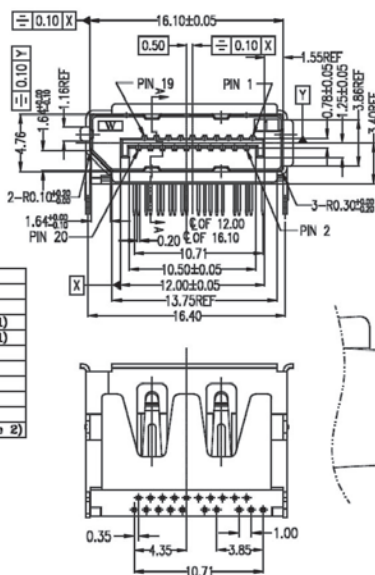
Recommended P.C. Board Layout  
Component Side (T=1.60mm)



No.	Signal Type	No.	Signal Type
1	In	11	GND
2	GND	12	In
3	In	13	CONFIG(see note 1)
4	In	14	CONFIG(see note 1)
5	GND	15	I/O
6	In	16	GND
7	In	17	I/O
8	GND	18	Out
9	In	19	RTN
10	In	20	Power Out(see note 2)



Cable 3D



## SPECIFICATIONS

- Operation Voltage: 40 VAC max.
- Current Rating: 0.5 Amperes
- Insulation Resistance: 100MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -20°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area; Sn (100u" Min.) Plating on Solder Tail; Ni (40u" Min.) Underplating overall

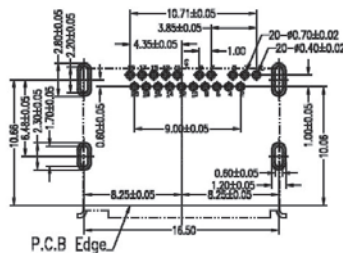
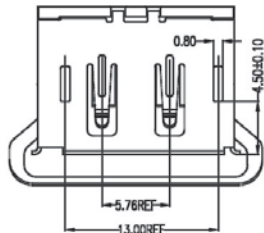
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N **D P P 0 6 - 2 0 F B x x**  
**1 2 3 4**

- NO. OF CONTACTS:  
20
- CONNECTOR TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# DISPLAYPORT 20 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE WITH EMI CLIP



Recommended P.C. Board Layout  
Top View (T=1.60mm)

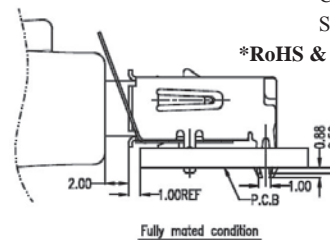
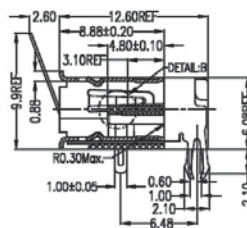
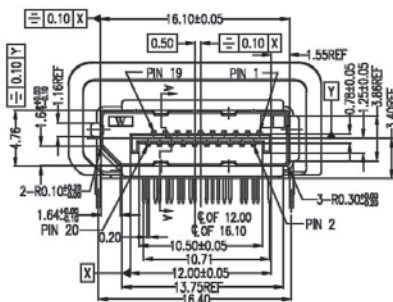
## SPECIFICATIONS

Operation Voltage: 40 VAC max.  
Current Rating: 0.5 Amperes  
Insulation Resistance: 100MΩ Min  
Dielectric Withstanding: 500V AC  
Contact Resistance: 30mΩ Max.  
Operating Temperature: -20°C to +85°C

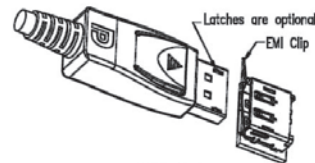
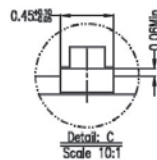
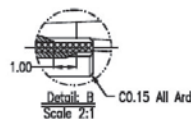
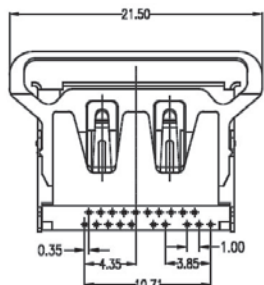
## MATERIALS

Housing: LCP, UL94V-0  
Contact: Brass  
Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



Fully mated condition



Cable 3D

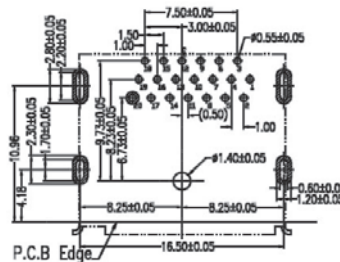
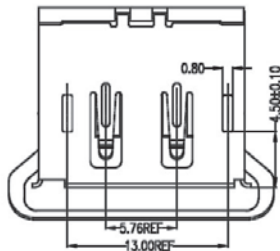
Pin No.	Signal Type	Pin No.	Signal Type
1	In	11	GND
2	GND	12	In
3	In	13	CONFIG(see note 1)
4	In	14	CONFIG(see note 1)
5	GND	15	I/O
6	In	16	GND
7	In	17	I/O
8	GND	18	Out
9	In	19	RTN
10	In	20	Power Out(see note 2)

## ORDERING INFORMATION:

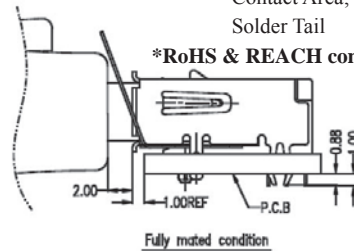
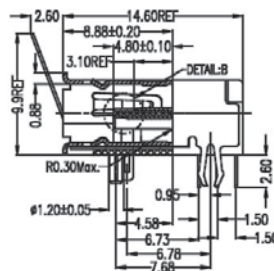
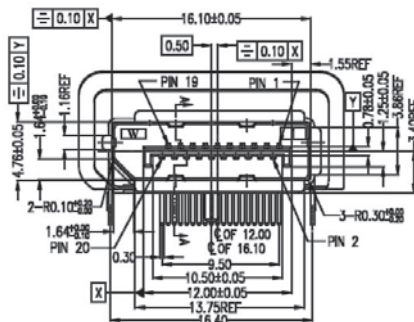
P/N DPP07 -  $\frac{20}{1}$   $\frac{FB}{2}$   $\frac{XX}{3}$   $\frac{XX}{4}$

1. NO. OF CONTACTS:  
20
2. CONNECTOR TYPE:  
"F" FEMALE
3. INSULATOR COLOR:  
"B" BLACK
4. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

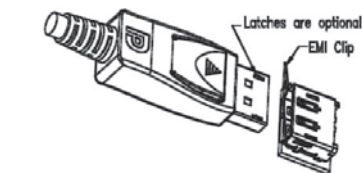
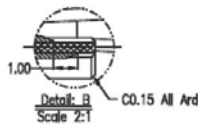
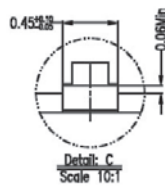
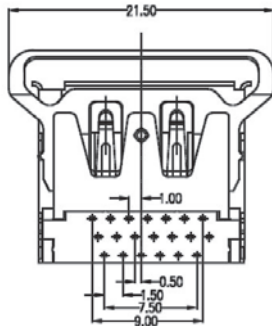
# DISPLAYPORT 20 PIN FEMALE CONNECTOR RIGHT ANGLE DIP TYPE WITH EMI CLIP



Recommended P.C.Board Layout  
Top View (T=1.60mm)



Fully mated condition



Cable 3D

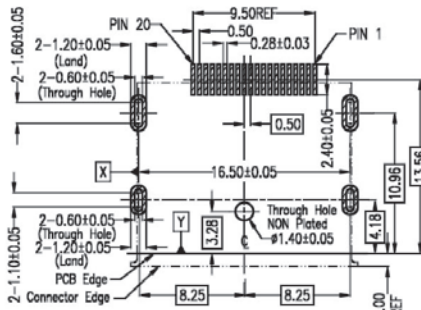
Pin No.	Signal Type	Pin No.	Signal Type
1	In	11	GND
2	GND	12	In
3	In	13	CONFIG(see note 1)
4	In	14	CONFIG(see note 1)
5	GND	15	I/O
6	In	16	GND
7	In	17	I/O
8	GND	18	Out
9	In	19	RTN
10	In	20	Power Out(see note 2)

## ORDERING INFORMATION:

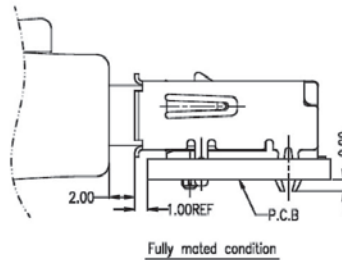
P/N DPP08 -  $\frac{20}{1}$   $\frac{F}{2}$   $\frac{B}{3}$   $\frac{xx}{4}$

1. NO. OF CONTACTS:  
20
2. CONNECTOR TYPE:  
"F" FEMALE
3. INSULATOR COLOR:  
"B" BLACK
4. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# DISPLAYPORT 20 PIN FEMALE CONNECTOR SMT TYPE



Recommended P.C.Board Layout  
Top View (T=1.60mm)



Fully mated condition

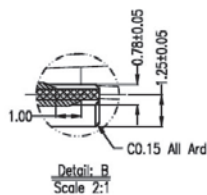
## SPECIFICATIONS

- Operation Voltage: 40 VAC max.
- Current Rating: 0.5 Amperes
- Insulation Resistance: 100MΩ Min
- Dielectric Withstanding: 500V AC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -20°C to +85°C

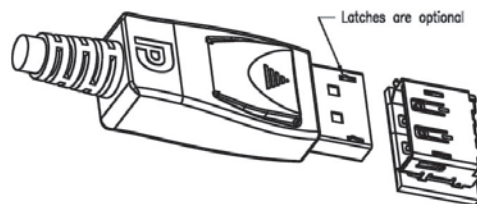
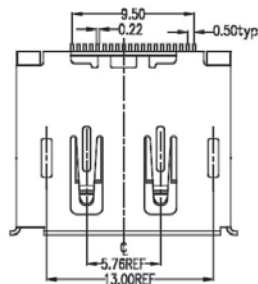
## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

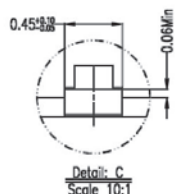
\*RoHS & REACH compliant.



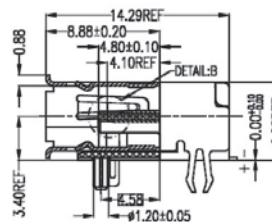
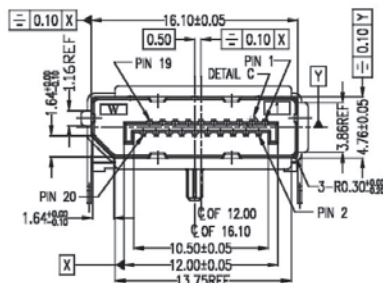
Detail B  
Scale 2:1



Cable 3D



Detail C  
Scale 10:1

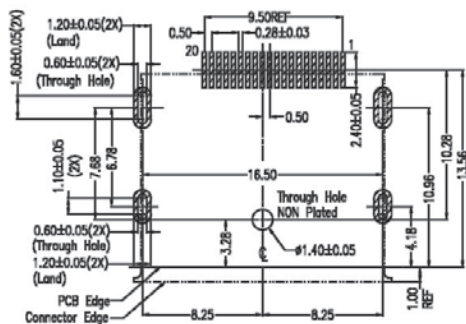


## ORDERING INFORMATION:

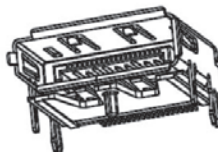
P/N **D P P 0 9 - 2 0 F B x x**  
**T 2 3 4**

1. NO. OF CONTACTS:  
20
2. CONNECTOR TYPE:  
"F" FEMALE
3. INSULATOR COLOR:  
"B" BLACK
4. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 05 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# DISPLAYPORT 20 PIN FEMALE CONNECTOR R/A SMT TYPE FOR MOLDING



Recommended P.C.Board Layout  
Component Side (T=1.60mm)



## SPECIFICATIONS

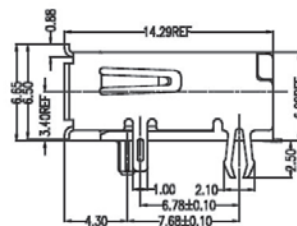
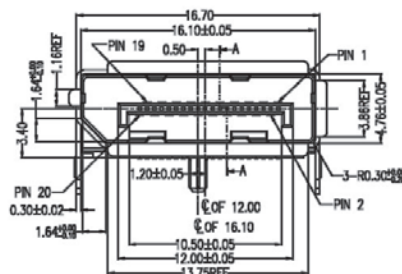
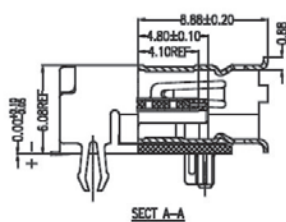
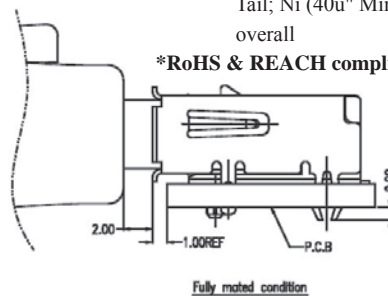
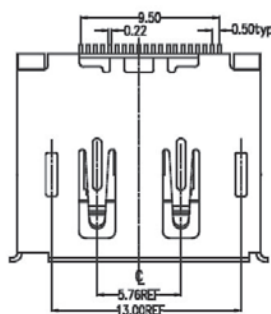
- Operation Voltage: 40 VAC max.
- Current Rating: 0.5 Amperes
- Insulation Resistance: 100MΩ Min
- Dielectric Withstanding: 500V DC
- Contact Resistance: 30mΩ Max.
- Operating Temperature: -20°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Au Plating on Contact Area;  
Sn (100u" Min.) Plating on Solder  
Tail; Ni (40u" Min.) Underplating  
overall

\*RoHS & REACH compliant.

No.	Signal Type	No.	Signal Type
1	Out	11	GND
2	GND	12	Out
3	Out	13	CONFIG
4	Out	14	CONFIG
5	GND	15	I/O
6	Out	16	GND
7	Out	17	I/O
8	GND	18	In
9	Out	19	PWR RTN
10	Out	20	PWR Out

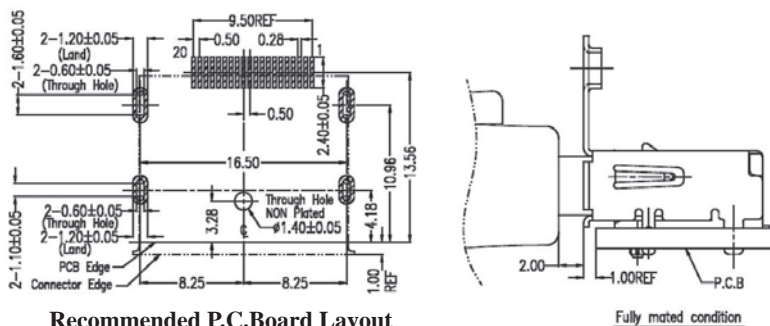


## ORDERING INFORMATION:

P/N D P P 10 -  $\frac{2}{1}$   $\frac{F}{2}$   $\frac{B}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

1. NO. OF CONTACTS:  
20
2. CONNECTOR TYPE:  
"F" FEMALE
3. INSULATOR COLOR:  
"B" BLACK
4. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD
5. PACKAGE OPTION:  
" " TRAY  
"R" TAPE & REEL

# DISPLAYPORT 20 PIN FEMALE CONNECTOR SMT TYPE WITH FLANGE



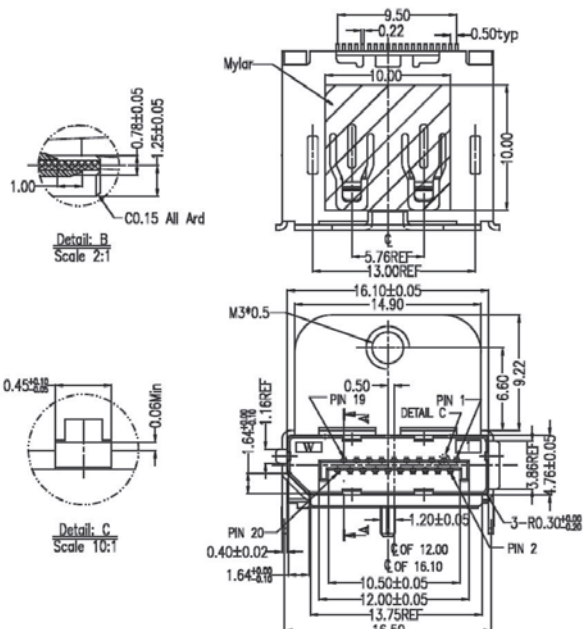
## SPECIFICATIONS

- Operation Voltage: 40 VAC max.
- Current Rating: 0.5 Amperes
- Insulation Resistance: 100M $\Omega$  Min
- Dielectric Withstanding: 500V DC
- Contact Resistance: 30m $\Omega$  Max.
- Operating Temperature: -20°C to +85°C

## MATERIALS

- Housing: LCP, UL94V-0
- Contact: Brass
- Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



No.	Signal Type	No.	Signal Type
1	In	11	GND
2	GND	12	In
3	In	13	CONFIG(see note 1)
4	In	14	CONFIG(see note 1)
5	GND	15	I/O
6	In	16	GND
7	In	17	I/O
8	GND	18	Out
9	In	19	RTN
10	In	20	Power Out(see note 2)

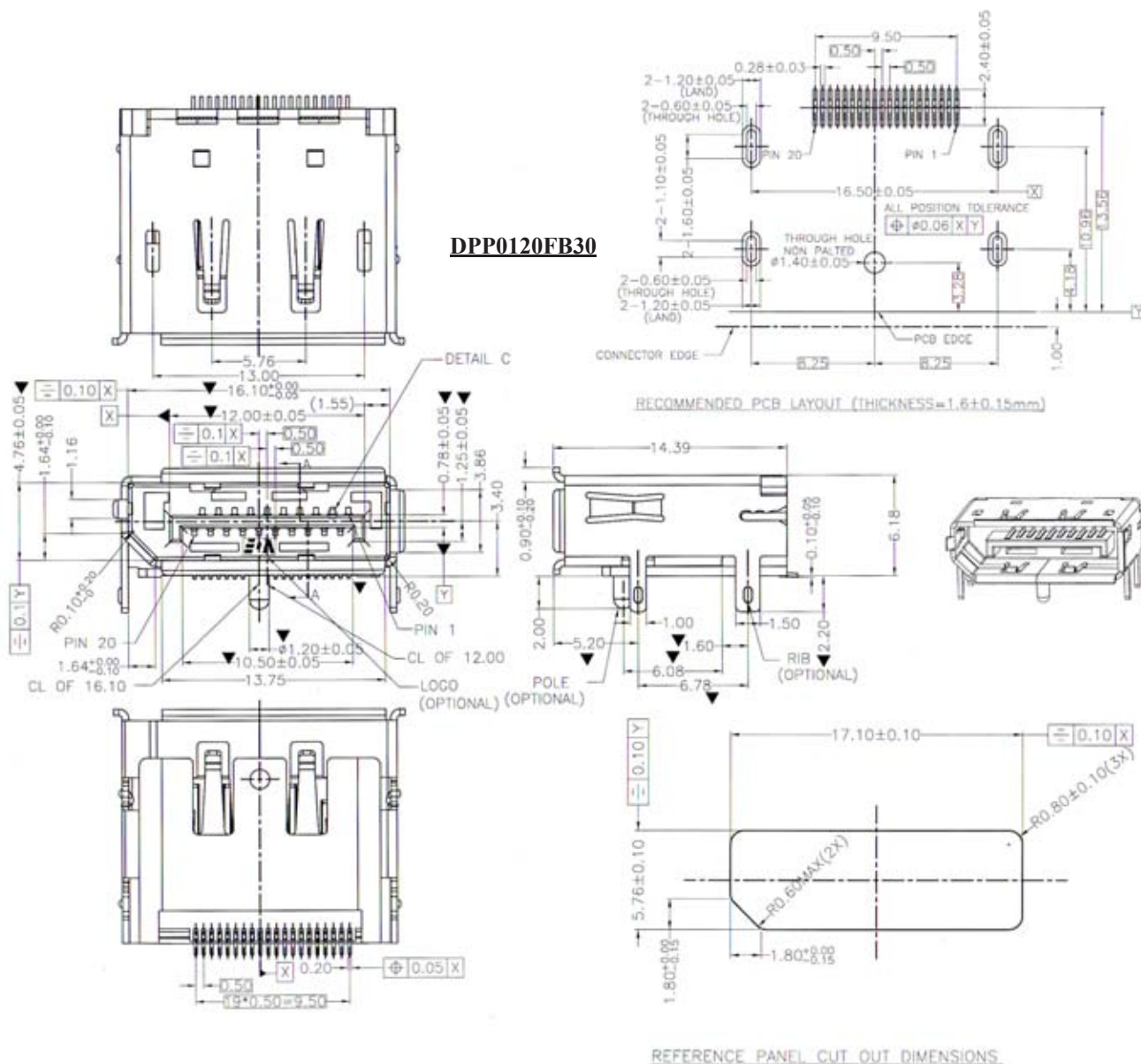
## ORDERING INFORMATION:

P/N D P P 1 2 -  $\frac{2}{1}$   $\frac{F}{2}$   $\frac{B}{3}$   $\frac{x}{4}$   $\frac{x}{5}$

- NO. OF CONTACTS:  
20
- CONNECTOR TYPE:  
"F" FEMALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD
- PACKAGE OPTION:  
"0" TRAY  
"R" TAPE & REEL

# DISPLAYPORT 20 PIN R/A SMT TYPE CONNECTOR

**DPP0120FB30**



## ORDERING INFORMATION:

**P/N DPP01-20FB30**  
1 2 3 4

- 1. NO. OF CONTACTS:  
20
- 2. CONNECTOR TYPE:  
"F" FEMALE
- 3. INSULATOR COLOR:  
"B" BLACK

- 4. CONTACT FINISH:  
"30" 30 MICRINCH GOLD



# DISPLAYPORT 20 PIN EXTERNAL MALE CONNECTOR DOUBLE ROW DIP TYPE

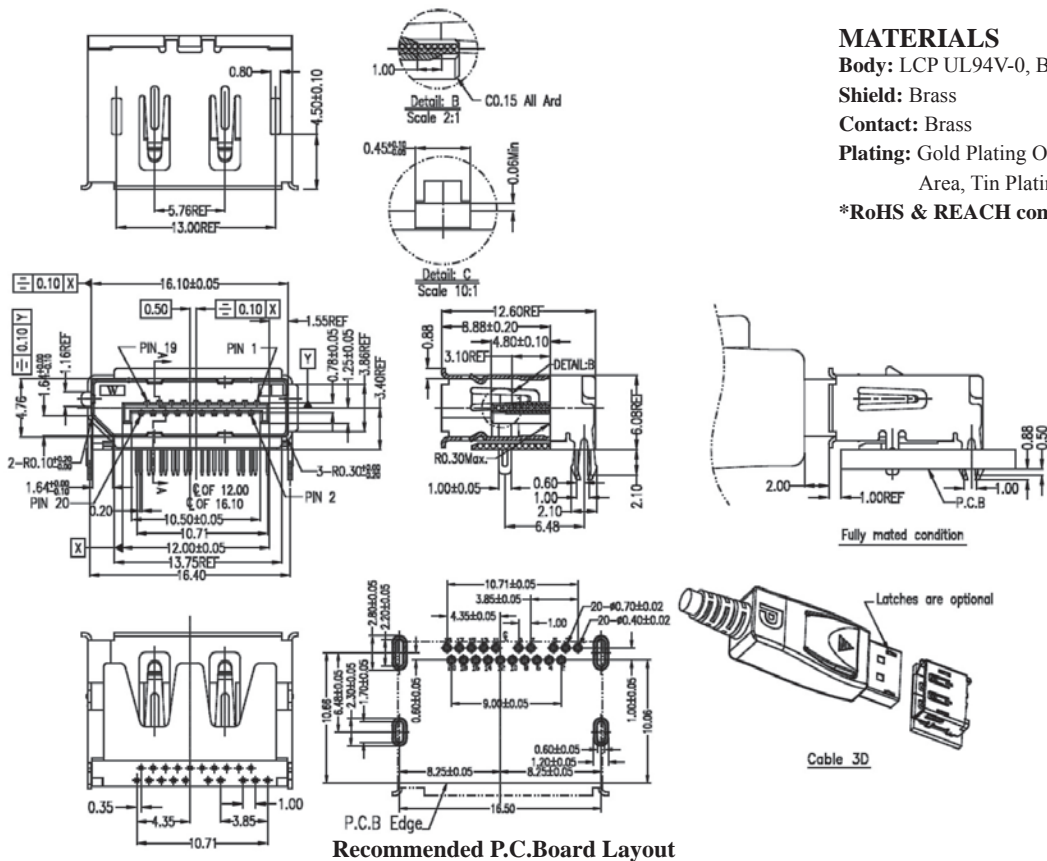
Pin No.	Signal Type	Pin No.	Signal Type
1	In	11	GND
2	GND	12	In
3	In	13	CONFIG(see note 1)
4	In	14	CONFIG(see note 1)
5	GND	15	I/O
6	In	16	GND
7	In	17	I/O
8	GND	18	Out
9	In	19	HTX
10	In	20	Power Out(see note 2)

## SPECIFICATIONS

**Operating Voltage:** 40 VAC Max.  
**Current Rating:** 0.5 Ampere Per Contact  
**Contact Resistance:** 30mΩ Max.  
**Insulation Resistance:** 100MΩ Min.  
**Dielectric Voltage:** 500V AC Min.  
**Operating Temperature:** -20°C to +85°C

## MATERIALS

**Body:** LCP UL94V-0, Black  
**Shield:** Brass  
**Contact:** Brass  
**Plating:** Gold Plating Over Nickel On Contact Area, Tin Plating On Solder Tail  
**\*RoHS & REACH compliant.**



## ORDERING INFORMATION:

P/N **D P P 0 4 - 2 0 M B x x**  
**1 2 3 4**

- NO. OF CONTACTS:  
20
- CONNECTOR TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# DISPLAYPORT 20 PIN EXTERNAL MALE CONNECTOR TRIPLE ROW DIP TYPE

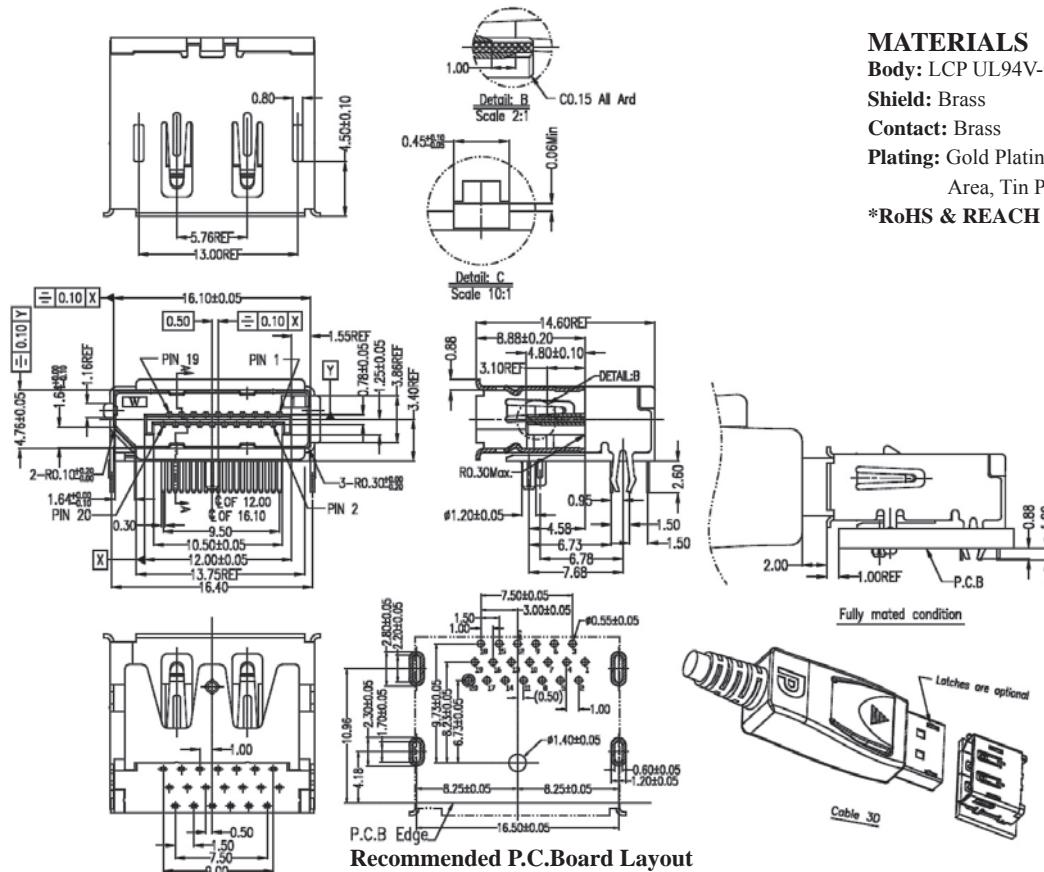
Pin No.	Signal Type	Pin No.	Signal Type
1	In	11	GND
2	GND	12	In
3	In	13	CONFIG(see note 1)
4	In	14	CONFIG(see note 1)
5	GND	15	I/O
6	In	16	GND
7	In	17	I/O
8	GND	18	Out
9	In	19	RTN
10	In	20	Power Out(see note 2)

## SPECIFICATIONS

**Operating Voltage:** 40 VAC Max.  
**Current Rating:** 0.5 Ampere Per Contact  
**Contact Resistance:** 30mΩ Max.  
**Insulation Resistance:** 100MΩ Min.  
**Dielectric Voltage:** 500V AC Min.  
**Operating Temperature:** -20°C to +85°C

## MATERIALS

**Body:** LCP UL94V-0, Black  
**Shield:** Brass  
**Contact:** Brass  
**Plating:** Gold Plating Over Nickel On Contact Area, Tin Plating On Solder Tail  
**\*RoHS & REACH compliant.**

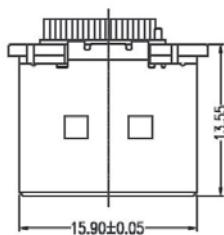
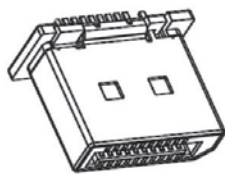


## ORDERING INFORMATION:

P/N DPP05 -  $\frac{20}{1}$   $\frac{MB}{2}$   $\frac{xx}{3}$   $\frac{xx}{4}$

- NO. OF CONTACTS:  
20
- CONNECTOR TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# DISPLAYPORT 20 PIN MALE CONNECTOR CABLE MOLDING TYPE



No.	Signal Type	No.	Signal Type
1	Out	11	GND
2	GND	12	Out
3	Out	13	CONFIG
4	Out	14	CONFIG
5	GND	15	I/O
6	Out	16	GND
7	Out	17	I/O
8	GND	18	In
9	Out	19	PWR RTN
10	Out	20	PWR Out

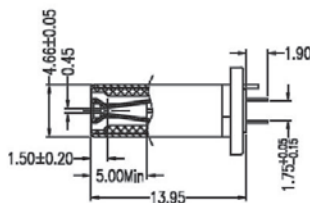
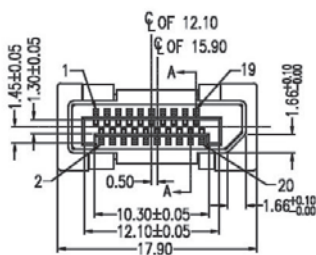
## SPECIFICATIONS

**Operation Voltage:** 40 VAC max.  
**Current Rating:** 0.5 Amperes  
**Insulation Resistance:** 100MΩ Min  
**Dielectric Withstanding:** 500V DC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -20°C to +85°C

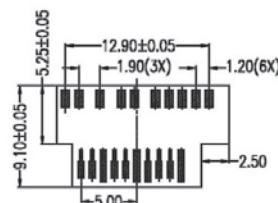
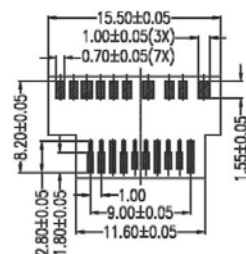
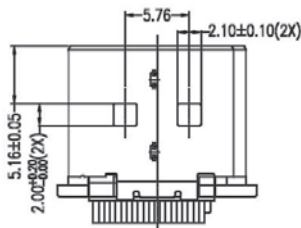
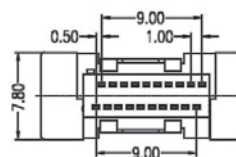
## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Au Plating on Contact Area;  
 Sn (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

\*RoHS & REACH compliant.



Section A-A



(Back View)

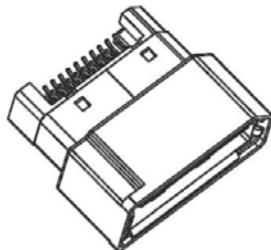
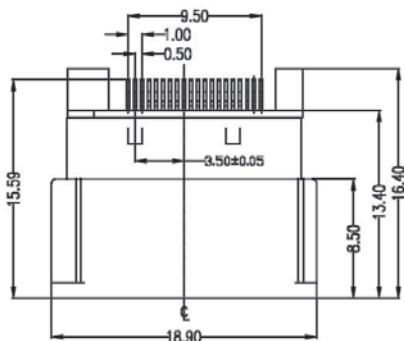
Recommended P.C.Board Layout  
(Front View) T=1.60mm

## ORDERING INFORMATION:

P/N D P P 1 1 -  $\frac{20}{1}$   $\frac{M}{2}$   $\frac{B}{3}$   $\frac{X X}{4}$

1. NO. OF CONTACTS:  
20
2. CONNECTOR TYPE:  
"M" MALE
3. INSULATOR COLOR:  
"B" BLACK
4. CONTACT FINISH:  
"01" GOLD FLASH  
"03" 3 MICROINCH GOLD

# DISPLAYPORT 20 PIN MALE CONNECTOR EXTERNAL STRADDLE TYPE



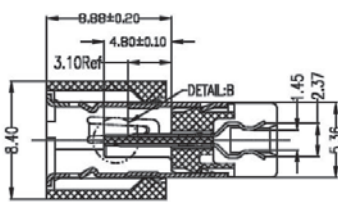
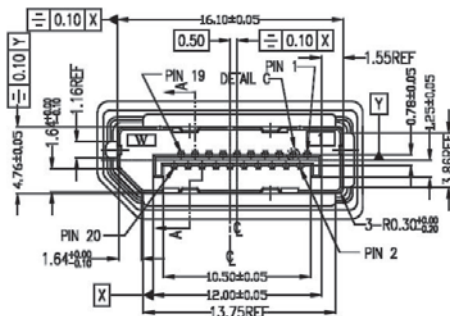
## SPECIFICATIONS

- Operation Voltage:** 40 VAC max.
- Current Rating:** 0.5 Amperes
- Insulation Resistance:** 100MΩ Min
- Dielectric Withstanding:** 500V AC
- Contact Resistance:** 30mΩ Max.
- Operating Temperature:** -20°C to +85°C

## MATERIALS

- Housing:** LCP, UL94V-0
- Contact:** Brass
- Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

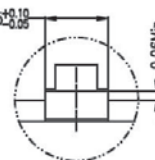
\*RoHS & REACH compliant.



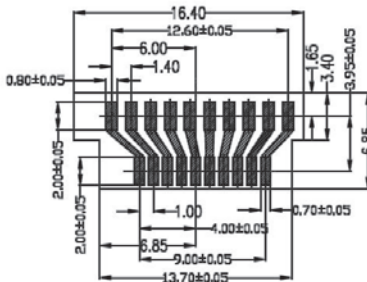
Sect A-A



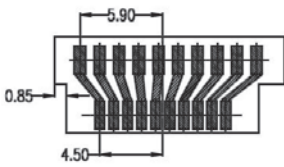
Detail: B  
Scale 2:1



Detail: C  
Scale 10:1



Recommended P.C.Board Layout  
(Front View) T=1.60mm



(Back View)

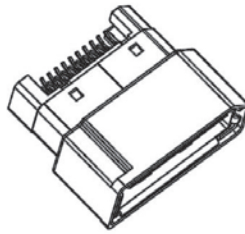
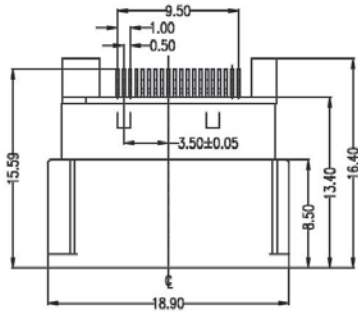
Pin No.	Signal Type	Pin No.	Signal Type
1	In	11	GND
2	GND	12	In
3	In	13	CONFIG(see note 1)
4	In	14	CONFIG(see note 1)
5	GND	15	I/O
6	In	16	GND
7	In	17	I/O
8	GND	18	Out
9	In	19	RTN
10	In	20	Power Out(see note 2)

## ORDERING INFORMATION:

P/N D P P 1 3 -  $\frac{2}{1} \frac{M}{2} \frac{B}{3} \frac{x}{4} x$

1. NO. OF CONTACTS:  
20
2. CONNECTOR TYPE:  
"M" MALE
3. INSULATOR COLOR:  
"B" BLACK
4. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# DISPLAYPORT 20 PIN MALE CONNECTOR STRADDLE TYPE WITH PCB



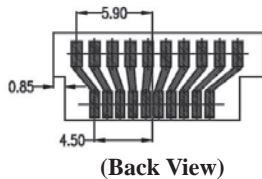
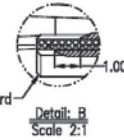
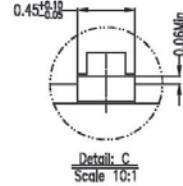
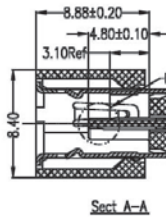
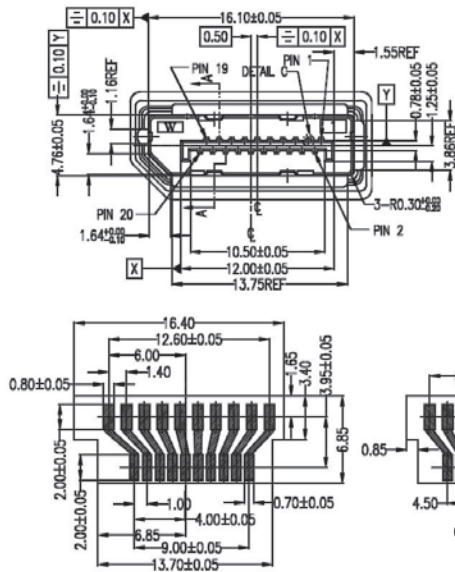
## SPECIFICATIONS

- Operation Voltage:** 40 VAC max.
- Current Rating:** 0.5 Amperes
- Insulation Resistance:** 100MΩ Min
- Dielectric Withstanding:** 500V AC
- Contact Resistance:** 30mΩ Max.
- Operating Temperature:** -20°C to +85°C

## MATERIALS

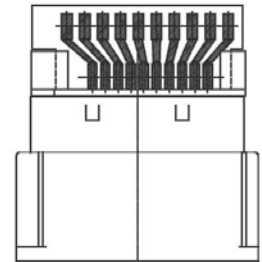
- Housing:** LCP, UL94V-0
- Contact:** Brass
- Plating:** Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.



(Back View)

Pin No.	Signal Type	Pin No.	Signal Type
1	In	11	GRD
2	GRD	12	In
3	In	13	CONFID(see note 1)
4	In	14	CONFID(see note 1)
5	GRD	15	I/O
6	In	16	GRD
7	In	17	I/O
8	GRD	18	Out
9	In	19	RTN
10	In	20	Power Out(see note 2)



PCB Assembly drawing

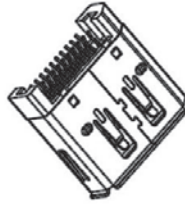
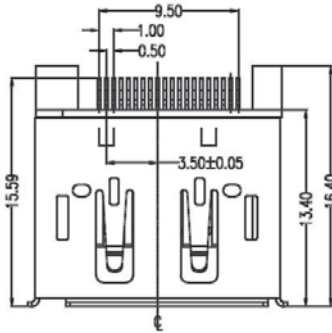
Recommended P.C.Board Layout  
(Front View) T=1.60mm

## ORDERING INFORMATION:

P/N D P P 1 4 -  $\frac{2}{1}$   $\frac{M}{2}$   $\frac{B}{3}$   $\frac{x}{4}$  x x

- NO. OF CONTACTS:  
20
- CONNECTOR TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# DISPLAYPORT 20 PIN MALE CONNECTOR STRADDLE TYPE WITHOUT SHEATH

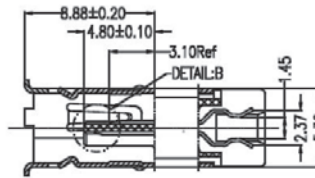
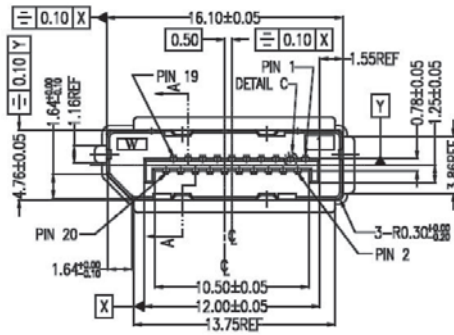


## SPECIFICATIONS

**Operation Voltage:** 40 VAC max.  
**Current Rating:** 0.5 Amperes  
**Insulation Resistance:** 100MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -40°C to +85°C

## MATERIALS

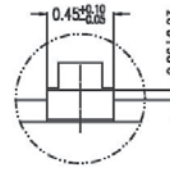
**Housing:** LCP, UL94V-0  
**Contact:** Brass  
**Plating:** Au Plating on Contact Area;  
 Sn (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall  
 \*RoHS & REACH compliant.



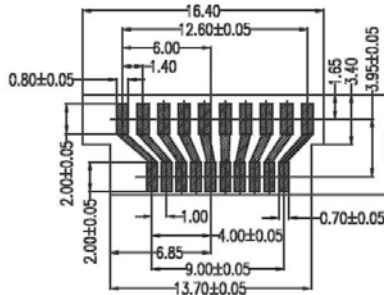
Sect A-A



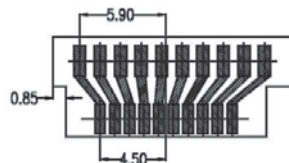
Detail: B  
Scale 2:1



Detail: C  
Scale 10:1



Recommended P.C. Board Layout  
(Front View) T=1.60mm



(Back View)

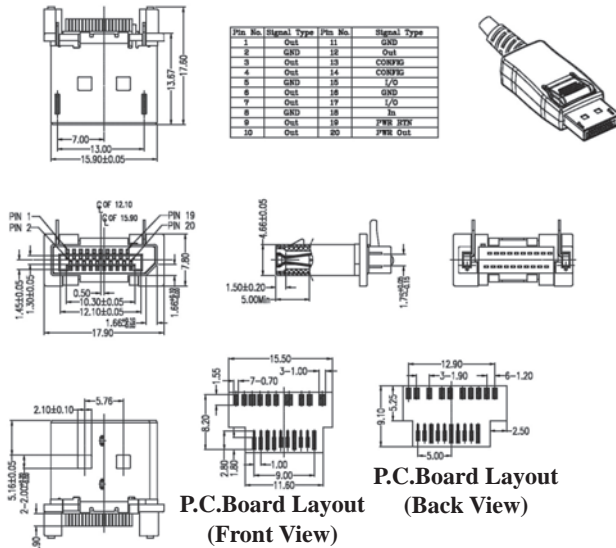
No.	Signal Type	No.	Signal Type
1	In	11	GND
2	GND	12	In
3	In	13	CONFIG(see note 1)
4	In	14	CONFIG(see note 1)
5	GND	15	I/O
6	In	16	GND
7	In	17	I/O
8	GND	18	Out
9	In	19	RTN
10	In	20	Power Out(see note 2)

## ORDERING INFORMATION:

P/N D P P 15 -  $\frac{2}{1}$   $\frac{M}{2}$   $\frac{B}{3}$   $\frac{x}{4}$  x

- NO. OF CONTACTS:  
20
- CONNECTOR TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# DISPLAYPORT 20 PIN MALE CONNECTOR WITH COVER CABLE SOLDER TYPE

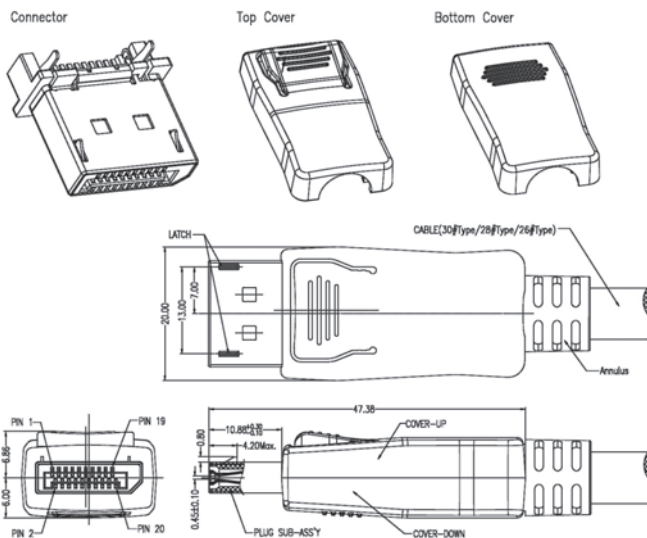


## SPECIFICATIONS

**Operating Voltage:** 40 VAC Max.  
**Current Rating:** 0.5 Ampere Per Contact  
**Contact Resistance:** 30mΩ Max.  
**Insulation Resistance:** 100MΩ Min.  
**Dielectric Voltage:** 500V AC Min.  
**Operating Temperature:** -20°C to +85°C

## MATERIALS

**Body:** LCP UL94V-0, Black  
**Shield:** Brass  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating On Contact Area  
 Tin(100u" Min) Plating On Solder Tail  
 Nickel(40u" Min) Underplating Overall  
**Spring:** Stainless Steel(SUS 304)  
**\*RoHS & REACH compliant.**

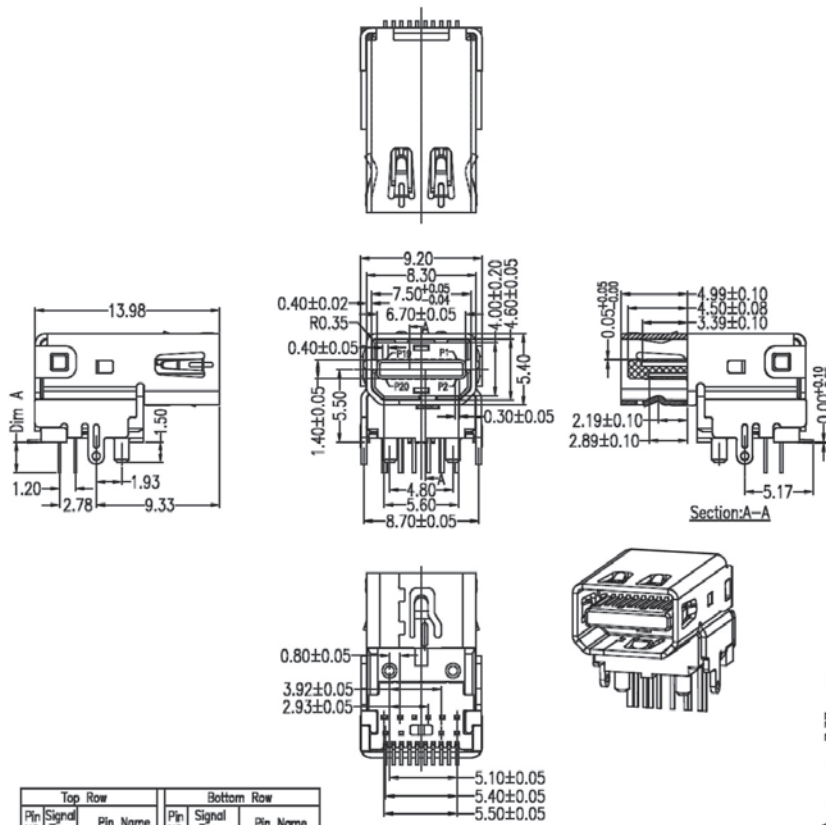


## ORDERING INFORMATION:

**P/N DPP02 -  $\frac{20}{1} \frac{M}{2} \frac{B}{3} \frac{XX}{4}$**

- NO. OF CONTACTS:  
20
- CONNECTOR TYPE:  
"M" MALE
- INSULATOR COLOR:  
"B" BLACK
- CONTACT FINISH:  
"01" GOLD FLASH  
"03" 3 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# MINI DISPLAYPORT 20 PIN FEMALE CONNECTOR RIGHT ANGLE DIP + SMT TYPE



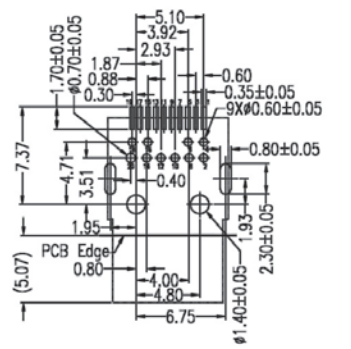
Top Row			Bottom Row		
Pin NO.	Signal Type	Pin Name	Pin NO.	Signal Type	Pin Name
1	GND	GND	2	In	HotPlug Detect
3	Out	ML_Lane 0(p)	4	CONFIG	CONFIG1
5	Out	ML_Lane 0(n)	6	CONFIG	CONFIG2
7	GND	GND	8	GND	GND
9	Out	ML_Lane 1(p)	10	Out	ML_Lane 3(p)
11	Out	ML_Lane 1(n)	12	Out	ML_Lane 3(n)
13	GND	GND	14	GND	GND
15	Out	ML_Lane 2(p)	16	I/O	AUX_CH(p)
17	Out	ML_Lane 2(n)	18	I/O	AUX_CH(n)
19	GND	GND	20	PWR Out	DP_PWR

## SPECIFICATIONS

**Current Rating:** 0.5 Ampere Per Contact  
**Contact Resistance:** 30mΩ Max.  
**Insulation Resistance:** 100MΩ Min.  
**Dielectric Voltage:** 500V AC Min.  
**Operating Temperature:** -40°C to +85°C

## MATERIALS

**Body:** LCP + 50%G.F. UL94V-0, Black  
**Insert:** LCP + 30%G.F. UL94V-0, Black  
**Retainer:** LCP + 50%G.F. UL94V-0, Black  
**Shell:** Brass  
**Contact:** Phosphor Bronze  
**Plating:** Gold Plating Over Nickel(40~80u") On Contact Area, Tin(100u" Min) Plating On Solder Tail  
**\*RoHS & REACH compliant.**



Recommended P.C.Board Layout

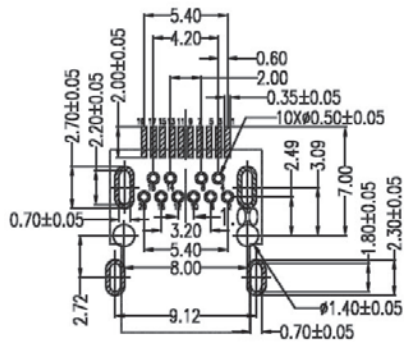
## ORDERING INFORMATION:

P/N M D P  $\frac{xx}{1}$  - 2 0 F  $\frac{B}{2}$   $\frac{xx}{3}$   $\frac{xx}{4}$

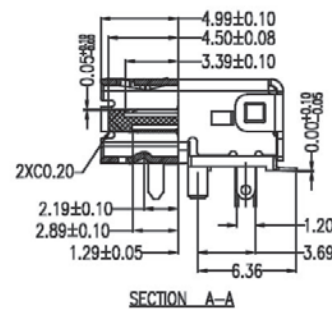
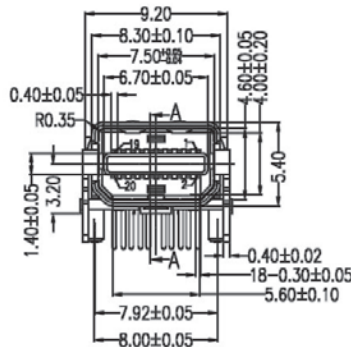
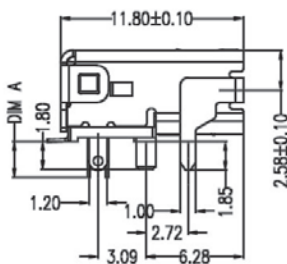
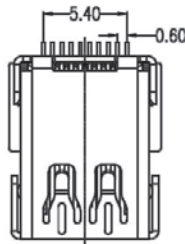
- DIP LENGTH OPTION:  
 "02" A=2.3MM FOR 1.20MM THICK PCB  
 "03" A=3.1MM FOR 1.60MM THICK PCB
- CONNECTOR TYPE:  
 "F" FEMALE
- INSULATOR COLOR:  
 "B" BLACK
- CONTACT FINISH:  
 "01" GOLD FLASH  
 "15" 15 MICROINCH GOLD  
 "30" 30 MICROINCH GOLD



# MINI DISPLAYPORT 20 PIN FEMALE CONNECTOR RIGHT ANGLE DIP+SMT TYPE

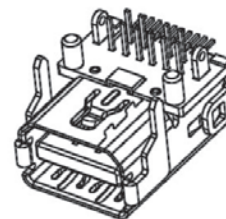
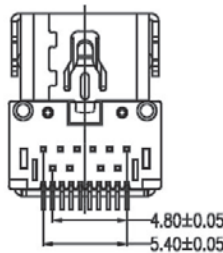


Recommended P.C.Board Layout  
Component Side



SECTION A-A

Top Row			Bottom Row		
Pin Number	Signal Type	Pin Name	Pin Number	Signal Type	Pin Name
1	GND	GND	2	In	HotPlug Detect
3	Out	ML_Lane 0(p)	4	CONFIG	CONFIG1
5	Out	ML_Lane 0(n)	6	CONFIG	CONFIG2
7	GND	GND	8	GND	GND
9	Out	ML_Lane 1(p)	10	Out	ML_Lane 3(p)
11	Out	ML_Lane 1(n)	12	Out	ML_Lane 3(n)
13	GND	GND	14	GND	GND
15	Out	ML_Lane 2(p)	16	I/O	AUX_CH(p)
17	Out	ML_Lane 2(n)	18	I/O	AUX_CH(n)
19	GND	GND	20	PWR Out	DP_PWR



## SPECIFICATIONS

Current Rating: 0.5 Amperes  
 Insulation Resistance: 100MΩ Min  
 Dielectric Withstanding: 500V AC  
 Contact Resistance: 30mΩ Max.  
 Operating Temperature: -40°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0  
 Contact: C7025  
 Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

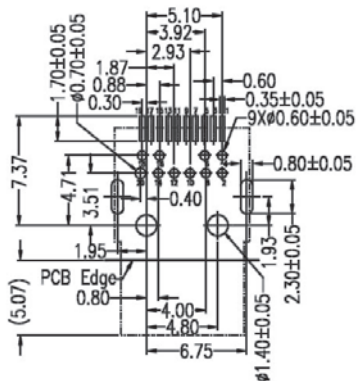
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

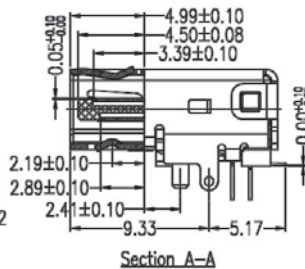
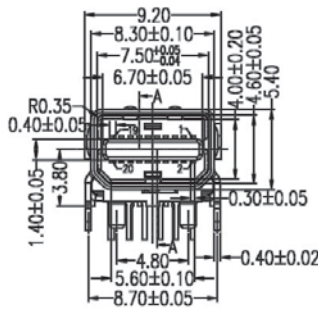
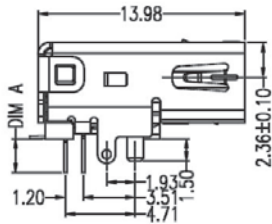
P/N M D P xx - 20 F B xx  
 1 2 3 4 5

- DIP LENGTH:  
 "04" DIM. A=2.30MM FOR 1.20MM THICK PCB  
 "05" DIM. A=3.10MM FOR 1.60MM THICK PCB
- NO. OF CONTACTS:  
 20
- CONNECTOR TYPE:  
 "F" FEMALE
- INSULATOR COLOR:  
 "B" BLACK
- CONTACT FINISH:  
 "01" GOLD FLASH  
 "15" 15 MICROINCH GOLD  
 "30" 30 MICROINCH GOLD

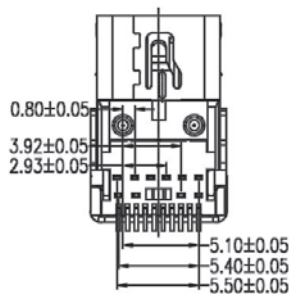
# MINI DISPLAYPORT 20 PIN FEMALE CONNECTOR RIGHT ANGLE DIP+SMT TYPE



Recommended P.C.Board Layout  
Component Side



Top Row			Bottom Row		
Pin NO.	Signal Type	Pin Name	Pin NO.	Signal Type	Pin Name
1	GND	GND	2	In	HotPlug Detect
3	Out	ML_Lane 0(p)	4	CONFIG	CONFIG1
5	Out	ML_Lane 0(n)	6	CONFIG	CONFIG2
7	GND	GND	8	GND	GND
9	Out	ML_Lane 1(p)	10	Out	ML_Lane 3(p)
11	Out	ML_Lane 1(n)	12	Out	ML_Lane 3(n)
13	GND	GND	14	GND	GND
15	Out	ML_Lane 2(p)	16	I/O	AUX_CH(p)
17	Out	ML_Lane 2(n)	18	I/O	AUX_CH(n)
19	GND	GND	20	PWR Out	DP_PWR



## SPECIFICATIONS

Current Rating: 0.5 Amperes  
 Insulation Resistance: 100MΩ Min  
 Dielectric Withstanding: 500V AC  
 Contact Resistance: 30mΩ Max.  
 Operating Temperature: -40°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0  
 Contact: Phosphor Bronze  
 Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

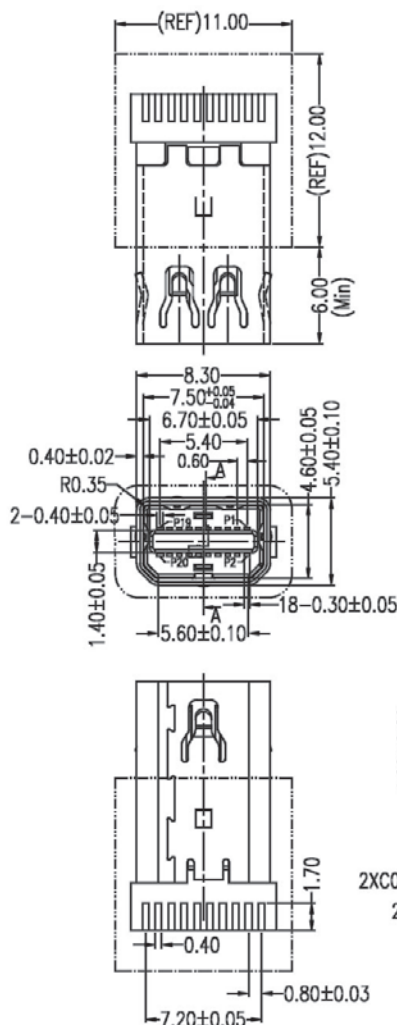
\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N M D P xx - 20 F xx xx  
 1 2 3 4 5

- DIP LENGTH:  
 "06" DIM. A=2.30MM FOR 1.20MM THICK PCB  
 "07" DIM. A=3.10MM FOR 1.60MM THICK PCB
- NO. OF CONTACTS:  
 20
- CONNECTOR TYPE:  
 "F" FEMALE
- INSULATOR COLOR:  
 "B" BLACK  
 "W" WHITE
- CONTACT FINISH:  
 "01" GOLD FLASH  
 "15" 15 MICROINCH GOLD  
 "30" 30 MICROINCH GOLD

# MINI DISPLAYPORT 20 PIN FEMALE CONNECTOR CABLE SOLDER TYPE



Top Row			Bottom Row		
Pin NO.	Signal Type	Pin Name	Pin NO.	Signal Type	Pin Name
1	GND	GND	2	In	HotPlug Detect
3	Out	ML_Lane 0(p)	4	CONFIG	CONFIG1
5	Out	ML_Lane 0(n)	6	CONFIG	CONFIG2
7	GND	GND	8	GND	GND
9	Out	ML_Lane 1(p)	10	Out	ML_Lane 3(p)
11	Out	ML_Lane 1(n)	12	Out	ML_Lane 3(n)
13	GND	GND	14	GND	GND
15	Out	ML_Lane 2(p)	16	I/O	AUX_CH(p)
17	Out	ML_Lane 2(n)	18	I/O	AUX_CH(n)
19	GND	GND	20	PWR Out	DP_PWR

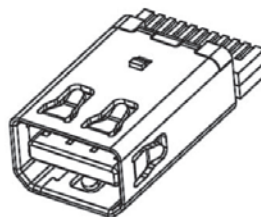
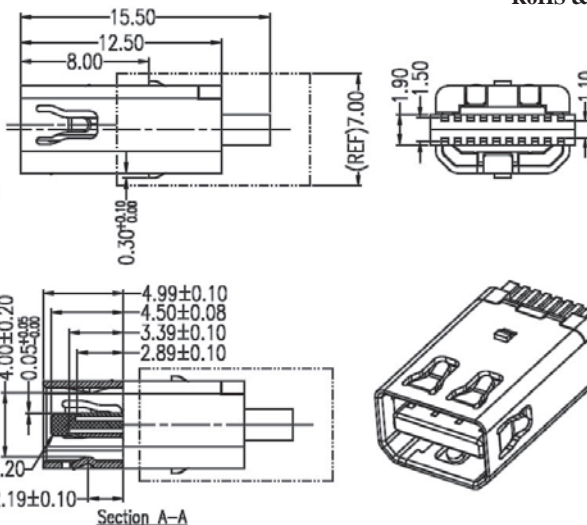
## SPECIFICATIONS

Current Rating: 0.5 Amperes  
 Insulation Resistance: 100MΩ Min  
 Dielectric Withstanding: 500V AC  
 Contact Resistance: 30mΩ Max.  
 Operating Temperature: -40°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0  
 Contact: Phosphor Bronze  
 Plating: Gold Plating over Nickel on Contact Area; Sn Plating on Solder Tail

\*RoHS & REACH compliant.

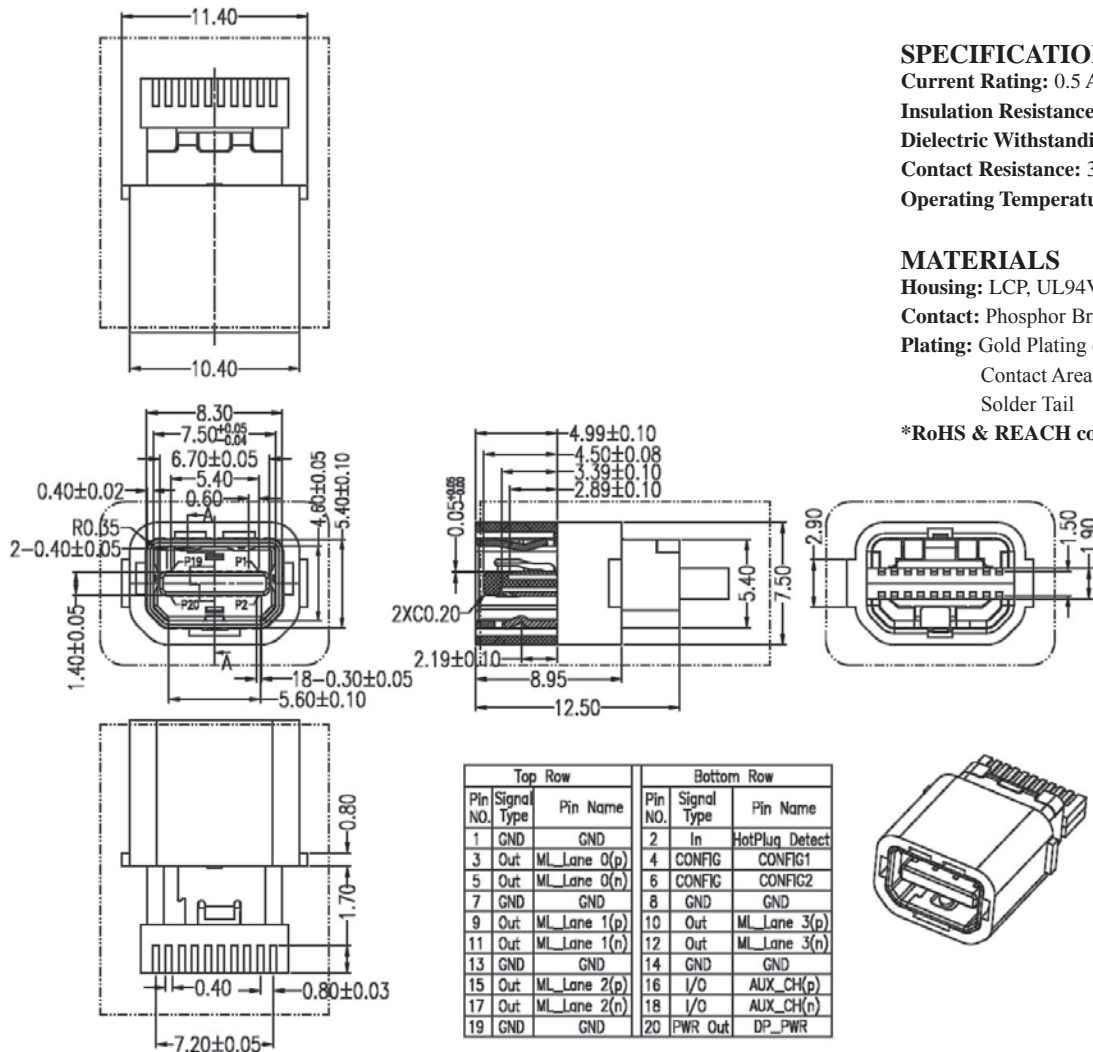


## ORDERING INFORMATION:

P/N MDP09 -  $\frac{20}{1} \frac{F}{2} \frac{B}{3} \frac{xx}{4}$

1. NO. OF CONTACTS:  
20
2. CONNECTOR TYPE:  
"F" FEMALE
3. INSULATOR COLOR:  
"B" BLACK
4. CONTACT FINISH:  
"01" GOLD FLASH  
"15" 15 MICRINCH GOLD  
"30" 30 MICRINCH GOLD

# MINI DISPLAYPORT 20 PIN FEMALE CONNECTOR CABLE SOLDER TYPE WITH SHEATH



## SPECIFICATIONS

Current Rating: 0.5 Amperes  
 Insulation Resistance: 100MΩ Min  
 Dielectric Withstanding: 500V AC  
 Contact Resistance: 30mΩ Max.  
 Operating Temperature: -40°C to +85°C

## MATERIALS

Housing: LCP, UL94V-0  
 Contact: Phosphor Bronze  
 Plating: Gold Plating over Nickel on Contact Area; Tin Plating on Solder Tail

\*RoHS & REACH compliant.

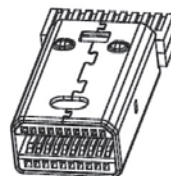
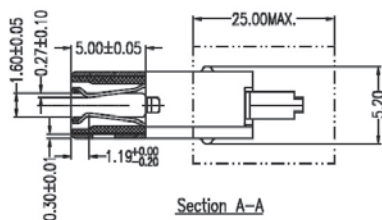
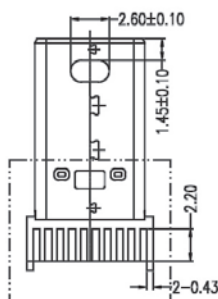
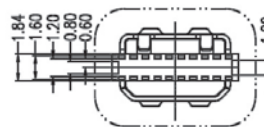
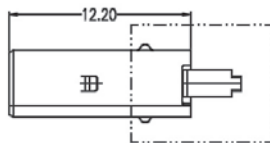
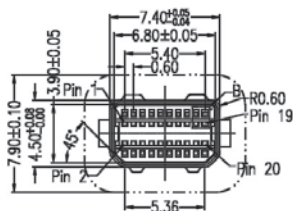
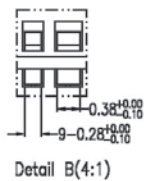
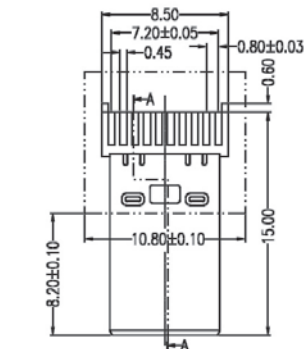
## ORDERING INFORMATION:

P/N MDP10 -  $\frac{20}{1} \frac{F}{2} \frac{B}{3} \frac{xx}{4}$

1. NO. OF CONTACTS:  
20
2. CONNECTOR TYPE:  
"F" FEMALE
3. INSULATOR COLOR:  
"B" BLACK
4. CONTACT FINISH:  
"01" GOLD FLASH  
"05" 5 MICROINCH GOLD  
"10" 10 MICROINCH GOLD  
"15" 15 MICROINCH GOLD  
"30" 30 MICROINCH GOLD

# MINI DISPLAYPORT 20 PIN MALE CONNECTOR CABLE SOLDER TYPE

Top Row			Bottom Row		
Pin NO.	Signal Type	Pin Name	Pin NO.	Signal Type	Pin Name
1	GND	GND	2	In	Hot Plug Detect
3	Out	ML_Lane 3(p)	4	CONFIG	CONFIG1
5	Out	ML_Lane 3(p)	6	CONFIG	CONFIG2
7	GND	GND	8	GND	GND
9	Out	ML_Lane 2(p)	10	Out	ML_Lane 0(n)
11	Out	ML_Lane 2(p)	12	Out	ML_Lane 0(p)
13	GND	GND	14	GND	GND
15	Out	ML_Lane 1(n)	16	I/O	AUX_CH(p)
17	Out	ML_Lane 1(p)	18	I/O	AUX_CH(n)
19	GND	GND	20	PWR Out	DP_PWR



## SPECIFICATIONS

**Current Rating:** 0.5 Ampere Per Contact

**Contact Resistance:** 30mΩ Max.

**Insulation Resistance:** 100MΩ Min.

**Dielectric Voltage:** 500V AC Min.

**Operating Temperature:** -40°C to +85°C

## MATERIALS

**Body:** LCP + 50%G.F. UL94V-0, White

**Insert:** LCP + 30%G.F. UL94V-0, Black

**Retainer:** LCP + 50%G.F. UL94V-0, Black

**Shell:** Brass, Nickel(40~80u") Plating

**Contact:** Phosphor Bronze

**Plating:** Gold Plating On Contact Area

Tin(100u" Min) Plating On Solder Tail

Nickel(40u" Min) Underplating Overall

**\*RoHS & REACH compliant.**

## ORDERING INFORMATION:

P/N MDP01 -  $\frac{20}{1} \frac{M}{2} \frac{B}{3} \frac{XX}{4}$

1. NO. OF CONTACTS:

20

2. CONNECTOR TYPE:

"M" MALE

3. INSULATOR COLOR:

"B" BLACK

4. CONTACT FINISH:

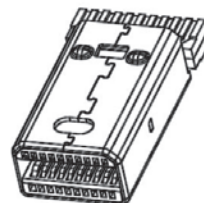
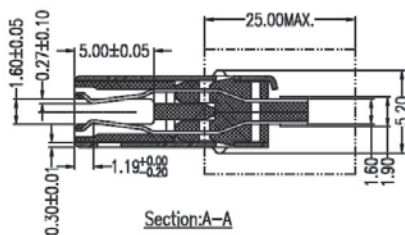
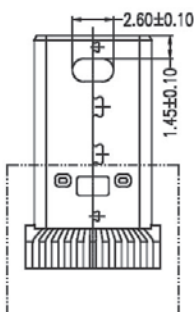
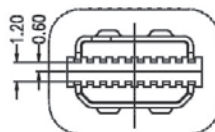
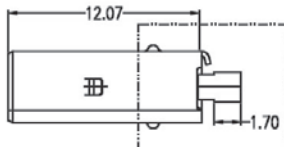
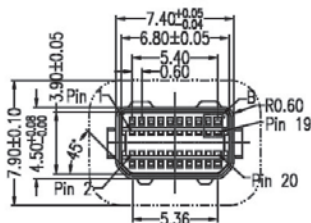
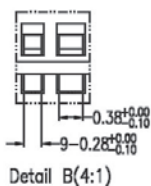
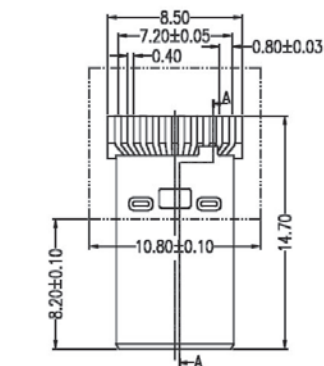
"01" GOLD FLASH

"03" 3 MICROINCH GOLD

"15" 15 MICROINCH GOLD

# MINI DISPLAYPORT 20 PIN MALE CONNECTOR CABLE SOLDER TYPE

Top Row			Bottom Row		
Pin NO.	Signal Type	Pin Name	Pin NO.	Signal Type	Pin Name
1	GND	GND	2	In	Hot Plug Detect
3	Out	ML Lane 3(n)	4	CONFIG	CONFIG1
5	Out	ML Lane 3(p)	6	CONFIG	CONFIG2
7	GND	GND	8	GND	GND
9	Out	ML Lane 2(n)	10	Out	ML Lane 0(n)
11	Out	ML Lane 2(p)	12	Out	ML Lane 0(p)
13	GND	GND	14	GND	GND
15	Out	ML Lane 1(n)	16	I/O	AUX_CH(p)
17	Out	ML Lane 1(p)	18	I/O	AUX_CH(n)
19	GND	GND	20	PWR Out	DP_PWR



## SPECIFICATIONS

**Operation Voltage:** 30 VAC max.  
**Current Rating:** 0.5 Amperes  
**Insulation Resistance:** 100MΩ Min  
**Dielectric Withstanding:** 500V AC  
**Contact Resistance:** 30mΩ Max.  
**Operating Temperature:** -40°C to +85°C

## MATERIALS

**Housing:** LCP, UL94V-0  
**Contact:** Phosphor Bronze  
**Plating:** Au Plating on Contact Area;  
 Tin (100u" Min.) Plating on Solder  
 Tail; Ni (40u" Min.) Underplating  
 overall

\*RoHS & REACH compliant.

## ORDERING INFORMATION:

P/N MDP08 -  $\frac{2}{1} \frac{M}{2} \frac{W}{3} \frac{XX}{4}$

1. NO. OF CONTACTS:  
20
2. CONNECTOR TYPE:  
"M" MALE
3. INSULATOR COLOR:  
"W" WHITE
4. CONTACT FINISH:  
"01" GOLD FLASH  
"03" 3 MICRINCH GOLD  
"05" 5 MICRINCH GOLD